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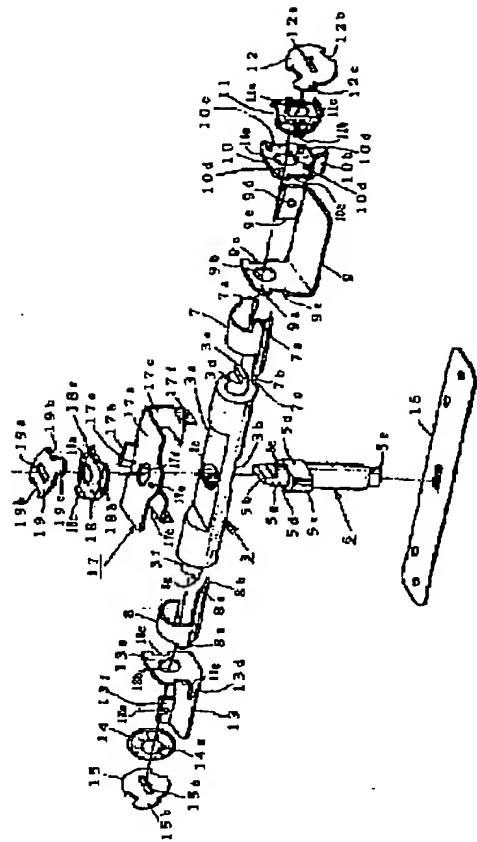
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APPLICANT : MITSUBISHI STEEL MFG CO LTD;

INVENTOR : HIGANO SAKAE;

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TITLE : HINGE MECHANISM



ABSTRACT : PROBLEM TO BE SOLVED: To reduce the size and weight by providing, on an opening and closing shaft support part, a rotatable opening and closing shaft, a rotating shaft orthogonal thereto, and an angle regulating piece making contact with the opening and closing shaft support part and the opening and closing shaft, providing a regulating flange on the rotating shaft, and providing a rotation regulating part on the opening and closing shaft support part.

SOLUTION: The angle regulating piece 12c of an opening and closing shaft 3 makes contact with an angle regulating curved piece 10b in a right-handed opening and closing shaft support part 9 to angularly regulate the rotation of the opening and closing shaft 3, a rotation regulating part 7b is opposed to the regulating flange 5c of a rotating shaft 5 to angularly regulate its rotation, and the opening and closing shaft 3 and the rotating shaft 6 thus have independent angle functions. The rotating shaft 5 is also rotated about the axial center of the opening and closing shaft 3, the opening and closing shaft 3 is rotatable only at the rotating angle of the opening and closing shaft 3 where the rotation regulating part 7b is opposed to the regulating flange 5c. When the rotating shaft 5 is rotated to the opening and closing shaft 3, the regulating flange 5c is also rotated with the rotating shaft 5 to change the direction, and the rotating shaft 5 is rotatable only when the regulating flange 5c is in the position never hindering the rotation regulating part 7b. Accordingly, the size, weight and cost can be reduced with fewer parts.

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